

# Executive Summary Report

## SMOG CHECK Statewide

December 2009

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	717,061	83,003	11.58%
Total	821,703	106,192	12.92%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	622,490	86.81%	94,571	13.19%
Total	700,044	85.19%	121,659	14.81%

#### 2a. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	385,592	87.07%	57,261	12.93%
Total	435,266	86.18%	69,784	13.82%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	11,838	1.65%
All Emissions	39,736	5.54%
All Visual	9,351	1.30%
All Functional	55,208	7.70%
OBDII	33,947	4.73%
Overall	83,003	11.58%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	575,733	67,344	11.70%	9,413	1.63%
Partially Enhanced	35,230	4,780	13.57%	674	1.91%
Basic	65,654	6,892	10.50%	1,133	1.73%
Change of Ownership	4,409	658	14.92%	145	3.29%
No Program	9	1	11.11%	1	11.11%
Unknown Program	36,026	3,328	9.24%	472	1.31%
Total Program Area	717,061	83,003	11.58%	11,838	1.65%

### 5. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	442,853	55,543	12.54%	8,330	1.88%
Regular	203,275	16,834	8.28%	1,966	0.97%
Basic Area Dealer	4,027	182	4.52%	17	0.42%
Gold Shield in Enhanced Area	50,767	8,000	15.76%	1,096	2.16%
Gold Shield in Basic Area	9,578	1,447	15.11%	255	2.66%
Gold Shield in COO Area	4,155	576	13.86%	118	2.84%
Business Fleet	5	0	0.00%	0	0.00%
Permanent Fleet Registered	22	2	9.09%	0	0.00%
Referee	481	267	55.51%	34	7.07%
Government Fleet	1,898	152	8.01%	22	1.16%
Total	717,061	83,003	11.58%	11,838	1.65%

#### 5.a. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	235,820	212,509
Directed Vehicles	207,033	173,083
Total	442,853	385,592

#### 5.b. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	46,505	39,327
Directed Vehicles	17,995	13,848
Total	64,500	53,175

**6. Initial Tests by Vehicle Model Year**

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-1970	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1971	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1975	1	1	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%
MY-1976	907	248	27.34%	18.96%	8.60%	15.55%	7.50%	0.00%
MY-1977	1,137	291	25.59%	16.18%	7.30%	14.78%	5.54%	0.00%
MY-1978	1,352	356	26.33%	17.23%	8.28%	15.90%	7.03%	0.00%
MY-1979	1,636	470	28.73%	19.56%	9.29%	17.42%	8.13%	0.00%
MY-1980	1,001	265	26.47%	17.28%	8.69%	15.78%	7.49%	0.00%
MY-1981	1,138	343	30.14%	22.23%	11.60%	15.11%	8.26%	0.00%
MY-1982	1,320	364	27.58%	20.91%	10.45%	13.86%	6.59%	0.00%
MY-1983	1,647	455	27.63%	21.49%	10.14%	14.21%	7.53%	0.00%
MY-1984	3,181	918	28.86%	22.98%	10.94%	15.15%	6.88%	0.00%
MY-1985	4,346	1,198	27.57%	21.42%	10.01%	14.89%	6.21%	0.00%
MY-1986	6,247	1,628	26.06%	19.74%	8.85%	14.17%	5.33%	0.00%
MY-1987	8,153	2,163	26.53%	20.46%	8.08%	13.57%	4.86%	0.00%
MY-1988	8,908	2,198	24.67%	19.07%	7.35%	12.49%	4.32%	0.00%
MY-1989	12,380	2,741	22.14%	16.16%	5.99%	11.53%	3.52%	0.00%
MY-1990	15,030	3,279	21.82%	16.04%	5.63%	11.22%	3.21%	0.00%
MY-1991	18,081	3,732	20.64%	15.28%	5.09%	10.95%	2.70%	0.00%
MY-1992	17,481	3,483	19.92%	14.39%	4.85%	9.75%	2.60%	0.00%
MY-1993	22,512	4,889	21.72%	16.67%	4.39%	9.66%	2.63%	0.00%
MY-1994	26,710	4,996	18.70%	13.47%	3.28%	8.80%	2.41%	0.00%
MY-1995	34,935	5,683	16.27%	11.39%	2.58%	7.38%	1.97%	0.00%
MY-1996	29,122	5,012	17.21%	7.24%	1.27%	12.27%	1.29%	11.44%
MY-1997	43,316	6,442	14.87%	5.82%	0.97%	10.84%	1.08%	10.19%
MY-1998	41,723	5,147	12.34%	4.07%	0.72%	9.37%	1.04%	8.90%
MY-1999	56,798	5,727	10.08%	2.36%	0.49%	8.38%	0.79%	8.06%
MY-2000	58,153	4,669	8.03%	1.56%	0.40%	6.79%	0.63%	6.56%
MY-2001	74,598	6,430	8.62%	1.14%	0.29%	7.75%	0.58%	7.51%
MY-2002	56,150	2,886	5.14%	0.67%	0.18%	4.50%	0.41%	4.33%
MY-2003	82,907	4,625	5.58%	0.56%	0.17%	5.05%	0.40%	4.90%
MY-2004	49,453	1,366	2.76%	0.25%	0.05%	2.49%	0.16%	2.33%
MY-2005	12,460	428	3.43%	0.36%	0.12%	3.06%	0.18%	2.91%
MY-2006	11,729	306	2.61%	0.24%	0.08%	2.35%	0.14%	2.19%
MY-2007	4,991	136	2.72%	0.12%	0.04%	2.46%	0.26%	2.38%
MY-2008	4,441	73	1.64%	0.09%	0.02%	1.62%	0.05%	1.49%
MY-2009	2,577	44	1.71%	0.12%	0.00%	1.59%	0.04%	1.51%
MY-2010	538	11	2.04%	0.19%	0.19%	1.86%	0.19%	1.49%
All Model Years	717,061	83,003	11.58%	5.54%	1.65%	7.70%	1.30%	4.73%

7. Referee Activity

	Certificates Issued
Certificate of Compliance	392
Certificate of Non Compliance	2
Parts Cost	202
Hardship Extensions	0
Exempt Vehicle	20
Exempted by Directive	59
Parts Exemption	8
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	683

8. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,097
Stations Locked-Out at Least Once	103
Stations Conducted at Least One Test	7,017

9. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	9,695	5,545
EA	Gas Endorsement	10	0
EB	Both Endorsement	46	0
EB	Gas Endorsement	482	0
GU	Both Endorsement	20	0

10. Inspection Costs

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	384,661	48.55	54,345	49.02	439,006	48.61
Test and Repair	129,482	47.43	72,219	47.23	201,701	47.35
Test and Repair Dealer	29	62.14	3,947	53.40	3,976	53.46
Referee	192	30.00	67	30.00	259	30.00
Gold Shield in Enhanced Area	43,202	48.06	7,482	49.01	50,684	48.20
Gold Shield in Basic Area	370	60.14	9,203	41.71	9,573	42.43
Gold Shield in COO Area	643	38.46	3,507	51.79	4,150	49.72

11. Repair Costs

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$0-50	5,603	22.15	18,462	212.69
	\$51-150	4,724	100.09		
	\$151-250	2,796	200.42		
	\$251-450	3,083	337.16		
	Over \$450	2,256	766.81		
CAP Repairs	\$0-50	118	21.92	4,667	406.55
	\$51-150	208	107.69		
	\$151-250	435	206.63		
	\$251-450	1,520	356.99		
	Over \$450	2,386	519.64		
Total Repairs	\$0-50	4,505	22.38	19,526	298.27
	\$51-150	3,450	99.65		
	\$151-250	2,694	202.02		
	\$251-450	4,001	344.10		
	Over \$450	4,876	709.28		

12. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	4,407	406.55

13. Drill-Through

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	5	2	0	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	41	6	1	0	2	4	3	1

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Test Only	18	9	3	0	3	6	5	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	4	1	0	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	256	52	7	3	12	30	21	9
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	476	81	7	3	26	41	53	7
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	31,074	6,193	839	321	2,511	2,973	4,130	738
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	52	7	1	29	18	33	1
Acceleration Simulation Mode (ASM)	Enhanced	Referee	118	113	26	47	25	63	62	59
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	91,058	7,842	718	430	4,590	2,673	5,941	806
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	315,579	48,272	7,202	2,471	17,649	26,056	30,635	5,388
Acceleration Simulation Mode (ASM)	No Program	Test and Repair	3	1	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	46	11	1	0	5	6	9	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	56	8	4	1	1	4	4	4
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,824	706	95	31	264	348	466	78
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	2	0	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Referee	3	9	0	2	2	4	5	3
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	14,364	2,259	313	124	784	1,179	1,393	250
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	13	2	1	0	1	1	1	1
Acceleration Simulation Mode (ASM)	Partial	Test Only	8,865	1,434	223	67	504	783	892	150
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	17	2	0	0	0	2	0	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,355	279	36	26	133	132	187	48

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	54	4	0	17	37	19	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	20	5	1	2	1	1	3	3
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	9,822	861	94	48	439	361	600	99
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	10,494	1,375	240	77	606	725	927	179
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	6,914	1,279	229	100	465	467	847	232
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	122	22	4	0	9	9	13	1
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,019	205	36	7	86	67	156	19
Two Speed Idle (TSI)	Basic	Government Fleet	0	12	3	0	7	3	9	0
Two Speed Idle (TSI)	Basic	Referee	14	24	5	11	5	6	19	16
Two Speed Idle (TSI)	Basic	Test and Repair	38,407	4,153	645	188	1,652	1,420	3,019	459
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	2,920	150	15	3	53	43	112	14
Two Speed Idle (TSI)	Basic	Test Only	7,313	1,015	192	43	392	401	692	114
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	65	12	3	1	5	5	7	2
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,440	316	77	33	85	155	202	44
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	114	28	7	1	10	11	17	4
Two Speed Idle (TSI)	Change of Ownership	Referee	4	4	0	4	0	1	2	4
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,282	148	25	18	67	50	107	29
Two Speed Idle (TSI)	Change of Ownership	Test and Repair Dealer	34	5	0	0	4	1	4	0
Two Speed Idle (TSI)	Change of Ownership	Test Only	732	138	33	10	45	66	95	16
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	314	29	4	4	16	7	21	11
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	440	48	12	0	21	19	40	3
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,756	510	70	20	306	135	401	39
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	26	8	0	11	12	14	1
Two Speed Idle (TSI)	Enhanced	Referee	24	20	2	11	9	3	12	12
Two Speed Idle (TSI)	Enhanced	Test and Repair	18,562	1,051	115	56	686	215	877	94
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	346	12	0	0	7	1	10	1
Two Speed Idle (TSI)	Enhanced	Test Only	38,787	2,990	396	113	1,820	803	2,278	228

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	33	3	2	0	1	2	2	0
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	322	55	9	2	29	19	43	5
Two Speed Idle (TSI)	Partial	Test and Repair	1,854	169	14	7	85	41	139	18
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	38	3	0	1	2	1	3	1
Two Speed Idle (TSI)	Partial	Test Only	1,016	114	12	7	63	28	84	12
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	329	60	9	3	20	17	40	11
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	827	98	14	9	43	29	75	14
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	296	21	4	0	14	6	16	0
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	5	0	0	3	1	4	1
Two Speed Idle (TSI)	Unknown Program	Referee	7	3	0	3	1	1	3	3
Two Speed Idle (TSI)	Unknown Program	Test and Repair	4,283	339	40	19	196	79	281	42
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	348	10	1	2	6	1	9	1
Two Speed Idle (TSI)	Unknown Program	Test Only	2,718	195	29	11	108	55	150	25
UnKnown TestType	Basic	Referee	0	11	0	7	0	11	0	7
UnKnown TestType	Basic	Test and Repair	11	2	0	1	1	3	1	1
UnKnown TestType	Basic	Test and Repair Dealer	2	0	0	0	0	1	0	0
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	1	0	0	0	0	1	0	0
UnKnown TestType	Change of Ownership	Referee	0	5	0	3	0	5	1	3
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	4	0	0	0	0	1	0	0
UnKnown TestType	Enhanced	Referee	3	50	0	26	0	50	0	27
UnKnown TestType	Enhanced	Test and Repair	47	1	0	0	1	2	1	0
UnKnown TestType	Enhanced	Test Only	45	0	0	0	0	4	0	0
UnKnown TestType	Partial	Referee	0	4	0	3	0	4	0	3
UnKnown TestType	Partial	Test and Repair	16	0	0	0	0	1	0	0
UnKnown TestType	Partial	Test Only	2	0	0	0	0	1	0	0
UnKnown TestType	Unknown Program	Gold Shield in COO Area	1	1	0	0	1	1	1	0
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	3	1	0	0	1	1	1	0
UnKnown TestType	Unknown Program	Referee	13	18	0	6	0	18	0	8
UnKnown TestType	Unknown Program	Test and Repair	21	1	0	0	1	1	1	0